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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,541	03/02/2004	Dennis D. O'Rell	14358 (6365/90576)	3382
44986	7590 07/28/2006		EXAMINER	
Levenfeld Pearlstein, LLC (ILLINOIS TOOL WORKS)			SHEWAREGED, BETELHEM	
Suite 1300	2 North LaSalle Street Suite 1300		ART UNIT	PAPER NUMBER
CHICAGO, II	L 60602		1774	
			DATE MAILED: 07/28/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/791,541	O'RELL ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Betelhem Shewareged	1774	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address -	
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1) 又	Responsive to communication(s) filed on <u>15 M</u>	av 2006.		
·	<u> </u>	action is non-final.		
3)□	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 13-20 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.		
Applicati	on Papers			
	The specification is objected to by the Examine	r.		
• —	The drawing(s) filed on is/are: a) acc		Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).	
441	Replacement drawing sheet(s) including the correct		•	
	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority L	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachmen	t(s)			
	e of References Cited (PTO-892)	4) Interview Summary		
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)	

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DETAILED ACTION

1. Applicant's response filed on 05/15/2006 has been fully considered. Claims 1-20 are pending. (NOTE: Claims 13-20 are withdrawn from consideration as nonelected invention).

Claim Rejections - 35 USC § 103

- 2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young et al. (US 4,861,644) in view of Schulz (US 6,825,279).
- 3. Young discloses a printed microporous material comprising a microporous material substrate containing an ultra high molecular polyethylene, and a printing ink on the microporous substrate (claim 1). The type of ink is disclosed in col. 12, lines 11-52. Young fails to disclose a layer comprising a film forming polymer between the substrate and the printing ink.
- 4. Schulz teaches a printable media comprising a substrate and an image receptive layer on the substrate (abstract), wherein the image receptive layer comprises a binder such as acrylic acid and styrene copolymer with acrylic acid (col. 7, line 24-40).
- 5. Young and Schulz are analogous art because they are from the same field of endeavor that is the printable media art. At the time of the invention, it would have been obvious to a person or ordinary skill in the art to combine the image receptive layer of Schulz with the invention of Young in order to capture most of the ink colorant near a first major surface of the ink receptive layer while allowing most of a fluid vehicle of the ink to pass through the ink receptive layer (see col. 2, line 5).

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Response to Arguments

6. Applicant's argument is based on that, contrary to the present invention, Schultz does not teach a non-overcoated media; therefore, can not be combine with Young. This argument is not persuasive for the following reason. Young teaches the claimed substrate and the claimed graphic print, however, Young does not teach the claimed first down coat layer between the substrate and the graphic print. In order to teach the missing element (i.e., first down coat layer), there is a need to combine the refrence of Young with a second reference that teaches an intermediate layer that is disposed between a substrate and a print or graphic layer. Schulz teaches a printable media comprising a substrate, an image receptive layer on the substrate and a printed image on the image receptive layer. The image receptive layer is equivalen to the claimed first down coat layer, and the image receptive media is an intermediate layer between the printed image and the substrate. Schulz further teaches that the image receptive layer is used to capture most of the ink colorant near a first major surface of the ink receptive layer while allowing most of a fluid vehicle of the ink to pass through the ink receptive layer (see col. 2, line 5). Young teaches the claimed invention except the first down coat layer, and Schulz teaches the missing element, i.e., the image receptive layer which is equivalent to the claimed first down coat layer. Thus, at the time of the invention, it would have been obvious to combine the image receptive layer of Schulz with the invention of Young in order to capture most of the ink colorant near a first major surface of the ink receptive layer while allowing most of a fluid vehicle of the ink to pass through the ink receptive layer (see col. 2, line 5 of Schulz).

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Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

B.S. July 23, 2006.

> SETELHEM SHEWAREGED PRIMARY EXAMINER